

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Method for determining an envelope curve of a modulated input signal comprising the steps of:

[[-]] generating digital samples by digital sampling a modulated input signal,

[[-]] generating Fourier-transformed samples by Fourier transforming the digital samples,

[[-]] generating sideband-cleaned, Fourier-transformed samples by removing a range with negative frequencies or a range with positive frequencies from the Fourier-transformed samples,

[[-]] generating inverse-transformed samples by inverse Fourier transforming the sideband-cleaned, Fourier-transformed samples, and

[[-]] ~~forming values of an absolute value of the inverse-transformed samples~~
calculating the absolute values of the inverse-transformed samples, and
displaying an envelope curve of the modulated input signal based on the absolute values of the inverse-transformed samples.

2. (Cancelled)

3. (Cancelled)

4. (Currently Amended) Method according to claim 1, comprising calculating the logarithms of ~~the values of the absolute value~~ values of the inverse-transformed samples relative to an effective value of the inverse-transformed samples.

5. (Previously Presented) Method according to claim 4, comprising displaying the frequency distribution of the logarithms as a function of a logarithmized level (complementary cumulative distribution function diagram).

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Currently Amended) The method of claim 1 ~~Method for determining an envelope curve of a modulated input signal comprising the steps of:~~

~~[[-]] generating digital samples by digital sampling a modulated input signal,~~

~~[[-]] generating Fourier transformed samples by Fourier transforming the digital samples,~~

~~[[-]] wherein generating sideband-cleaned, Fourier-transformed samples by removing a range with negative frequencies or a range with positive frequencies from the Fourier-transformed samples[[,]] and further comprises removing a level component at a zero frequency [[,]]~~

~~[[-]] generating inverse-transformed samples by inverse Fourier transforming the sideband-cleaned, Fourier-transformed samples, and~~

~~[[-]] forming values of the absolute value of an inverse-transformed samples.~~

11. (Previously Presented) Method according to claim 10, comprising processing the inverse-transformed samples further only in such a limited range that a cyclic continuation, which is caused by the Fourier transform and inverse Fourier transform, is suppressed.

12. (Currently Amended) Method according to claim 10, comprising calculating the logarithms of ~~the values of the absolute value~~ values of the inverse-transformed samples relative to an effective value of the inverse-transformed samples.

13. (Previously Presented) Method according to claim 12, comprising displaying the frequency distribution of the logarithms as a function of a logarithmized level (complementary cumulative distribution function diagram).

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Currently Amended) The method of claim 1 further Method for
~~determining an envelope curve of a modulated input signal comprising the step[[s]] of:~~
 [[-]] ~~generating digital samples by digital sampling a modulated input signal,~~
 [[-]] ~~generating Fourier transformed samples by Fourier transforming the digital~~
~~samples,~~
 [[-]] ~~generating sideband cleaned, Fourier transformed samples by removing a range~~
~~with negative frequencies or a range with positive frequencies from the Fourier transformed~~
~~samples,~~
 [[-]] ~~generating inverse transformed samples by inverse Fourier transforming the~~
~~sideband cleaned, Fourier transformed samples,~~
 [[-]] ~~processing the inverse-transformed samples further only in such a limited range~~
~~that a cyclic continuation, which is caused by the Fourier transform and inverse Fourier~~
~~transform, is suppressed and,~~
 [[-]] ~~forming values of an absolute value of the inverse transformed samples.~~

19. (Currently Amended) Method according to claim 18, comprising
calculating the logarithms of ~~the values of the absolute value~~ values of the inverse-
transformed samples relative to an effective value of the inverse-transformed samples.

20. (Previously Presented) Method according to claim 19, comprising
displaying the frequency distribution of the logarithms as a function of a logarithmized level
(complementary cumulative distribution function diagram).

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (New) A computing apparatus comprising:
a display unit that is capable of generating video images;
a processing apparatus operatively coupled to the display unit, the processing apparatus comprising a processor and a memory operatively coupled to the processor, the processing apparatus being programmed to:
 generate digital samples by digital sampling a modulated input signal,
 generate Fourier-transformed samples by Fourier transforming the digital samples,
 generate sideband-cleaned, Fourier-transformed samples comprising removing a range with negative frequencies or a range with positive frequencies from the Fourier-transformed samples,
 generate inverse-transformed samples by inverse Fourier transforming the sideband-cleaned, Fourier-transformed samples,
 calculate the absolute values of the inverse-transformed samples, and
 output to the display unit an envelope curve of the modulated input signal based on the absolute values of the inverse-transformed samples.

26. (New) The apparatus of claim 25, comprising calculating the logarithms of the absolute values of the inverse-transformed samples relative to an effective value of the inverse-transformed samples.

27. (New) The apparatus of claim 26, comprising displaying the frequency distribution of the logarithms as a function of a logarithmized level (complementary cumulative distribution function diagram).

28. (New) The apparatus of claim 25, wherein generating sideband-cleaned, Fourier-transformed samples further comprises removing a level component at a zero frequency.

29. (New) The apparatus of claim 28, comprising processing the inverse-transformed samples further only in such a limited range that a cyclic continuation, which is caused by the Fourier transform and inverse Fourier transform, is suppressed.

30. (New) The apparatus of claim 28, comprising calculating the logarithms of the absolute values of the inverse-transformed samples relative to an effective value of the inverse-transformed samples.

31. (New) The apparatus of claim 30, comprising displaying the frequency distribution of the logarithms as a function of a logarithmized level (complementary cumulative distribution function diagram).

32. (New) The apparatus of claim 25, further comprising processing the inverse-transformed samples further only in such a limited range that a cyclic continuation, which is caused by the Fourier transform and inverse Fourier transform, is suppressed.

33. (New) The apparatus of claim 32, comprising calculating the logarithms of ~~the values of~~ the absolute values of the inverse-transformed samples relative to an effective value of the inverse-transformed samples.

34. (New) The apparatus of claim 33, comprising displaying the frequency distribution of the logarithms as a function of a logarithmized level (complementary cumulative distribution function diagram).